MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2016/2017

MID 1043 – MULTIMODAL INTERACTION DESIGN

(All Section / Groups)

7 October 2016
9:00 a.m. - 11:00 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This examination paper consists of 3 pages with a TOTAL of 4 Questions.
2. Answer **ALL 4** questions (10 or 20 marks each) **Total 40 marks**
3. Please read carefully additional instructions at the beginning of each Section.
4. Please write all your answers **CLEARLY** in the Answer Booklet provided.
5. The Exam duration is **2** hours (**120 minutes**). If you complete the Exam earlier, and want to leave the Exam Hall, please do so quietly and submit your Exam papers in its designated stack. Do not disturb the other students in the Exam Hall.
6. Please make sure your ID number and the question number(s) you have attempted are **WRITTEN CLEARLY** on the cover of the Answer Booklet before submission.

ANSWER ALL 4 QUESTIONS (Total 40 marks)

1. There are five (5) senses as channels of interaction with the environment.

   (a) Identify the 5 senses and multimodal channels that are associated with the multimodal channels. (5 marks)

   (b) Provide an example of a new proposed multimodal interaction design that can influence the environment of Multimedia University campus.(5 marks)

   (Total: 10 marks)

2. In Anthropocentric User diagram, users receive and interpret the information through virtual and real world.

   (a) Explain the diagram how multimodal interaction design works with an example in virtual world. (5 marks)

   (b) Describe the diagram how multimodal interaction design works with an example in real world. (5 marks)

   (Total: 10 marks)

3. Sound is used in several audio interfaces.

   Explain the term below, and provide with two (2) examples based on your understanding for each item how sound is used on any audio interfaces.
   (Note: You only need to answer 2 out of 4 terms below.)

   i. Audio for monitoring (5 marks)

   ii. Audio for Games (5 marks)

   iii. Accessibility and the Desktop (5 marks)

   iv. Mobile Accessibility (5 marks)

   (Total: 10 marks)

Continued...

4. As an Interaction Designer, you are required by the management of design to redesign an existing panel of interface for a simple electronic calculator. The followings are the components of the new design:

- 10 x sets of buttons for pre-selected stations
- 1 x decimal button (.)
- 1 x total/sum button (=)
- 1 plastic component body to house all electronics
- 1 LCD display
- 1 push-button, on-off switch
- 5 x function (+, -, ÷, x, %) buttons
- 1 x cancel (CE/C) button

Explain your design considerations and decisions for each component by making notes onto your sketches. Apply the good principles of design with explanation.

(Total: 10 marks)

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